




# COATING FORMING METHOD AND COATING FORMING MATERIAL AND ABRASIVE COATING FORMING SHEET

**Patent number:** WO02097160  
**Publication date:** 2002-12-05  
**Inventor:** MEGA MASAHIKO (JP); OHARA MINORU (JP)  
**Applicant:** MEGA MASAHIKO (JP); OHARA MINORU (JP); MITSUBISHI HEAVY IND LTD (JP)  
**Classification:**  
 - international: C23C26/00  
 - european: C23C10/30; C23C26/02; C23C26/00  
**Application number:** WO2002JP05359 20020531  
**Priority number(s):** JP20010165659 20010531

## Also published as:

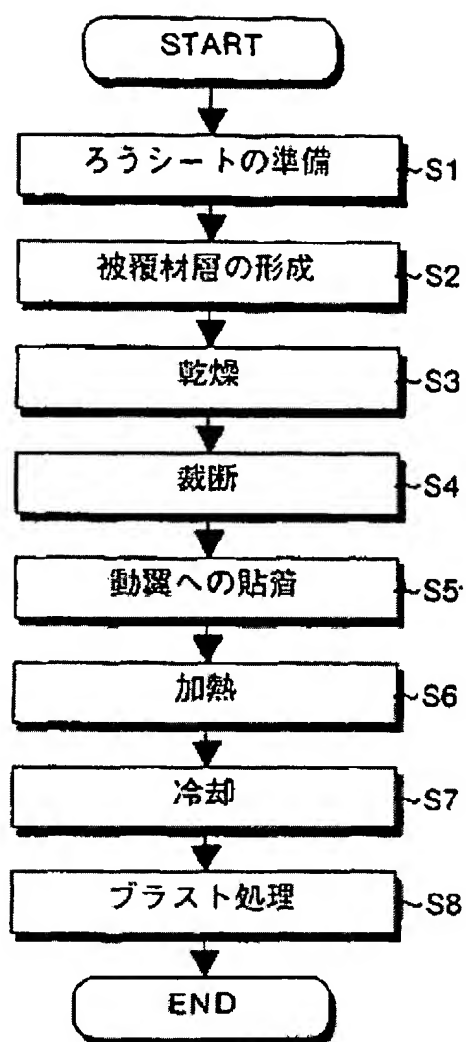
 EP1391537 (A1)  
 US2004091627 (A1)

## Cited documents:

 JP7185789

## Abstract of WO02097160

First, a wax sheet is provided. The wax sheet consists of a wax material layer, an adhesive material layer and release paper. The wax material layer consists of a wax material. Next, a coating material layer is laid on the wax material layer. The coating material layer consists of a mixture of coating particles and a binder. Coating particles use AlN particles and abrasive grains, cubic system boron nitride particles, etc. Next, the coating material layer is dried. Then, the wax sheet is cut. The cut wax sheet is bonded to a rotor blade. Next, the rotor blade is heated to melt the wax material. The wax material is wetted as an AlN particle-surrounding liquid phase, and is then diffused by a heat-treat retaining process. Next, a solidified layer is formed by cooling. The solidified layer is blasted, and cubic system boron nitride particles are allowed to protrude to complete an abrasive coating.



S1...PROVIDING WAX SHEET  
S2...FORMING COATING MATERIAL LAYER  
S3...DRYING  
S4...CUTTING  
S5...BONDING TO ROTOR BLADE  
S6...HEATING  
S7...COOLING  
S8...BLASTING

Data supplied from the esp@cenet database - Worldwide

BEST AVAILABLE COPY